

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start		Rating **	A	Issue No.	19
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0001_01_s _ 2016_19				
Comment Code					
Inspector Comment					
The LMA has emergency supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	28
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0001_01_s _ 2013_28				
Comment Code					
Inspector Comment					
The LMA has O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	29
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0001_01_s _ 2013_29				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	3.09	Rating **	U	Issue No.	81
LM End	3.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.247332 °	39.247332 °
				-122.008164 °	-122.008164 °
DWR ID	DWR_MA0001_01_s_2016_81				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
downed tree covering LS slope.					

Photo 1 of 1 : SP_2016_MA0001_297_81_20160405_00144.jpg



Downed tree obstructing access

LM Start	3.88	Rating **	M	Issue No.	50
LM End	3.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.257125 °	39.257125 °
				-122.012648 °	-122.012648 °
DWR ID	DWR_MA0001_01_f_2013_50				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_MA0001_297_50_20160316_00016.jpg



View of the elderberry on the landside slope.

LM Start	4.86	Rating **	M	Issue No.	3
LM End	5.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.265730 °	39.266315 °
				-122.014925 °	-122.020682 °
DWR ID	DWR_MA0001_01_s_2016_3				
Comment Code					
Inspector Comment					
2009 - Slump in the middle of the section has left a vertical section on the bank. 2010 - Old cobble site unraveling, site extended downstream. 2015: Last observed in 2013. [2015 Site ID: SAC_151-0_R]					

Photo 1 of 1 : SP_2016_MA0001_297_3_20160316_00002.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	5.77	Rating **	M	Issue No.	35
LM End	5.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.272773 °	39.272773 °
				-122.023290 °	-122.023290 °
DWR ID	DWR_MA0001_01_s _ 2012_35				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	7.70	Rating **	M	Issue No.	52
LM End	7.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.297303 °	39.297303 °
				-122.025257 °	-122.025257 °
DWR ID	DWR_MA0001_01_s _ 2012_52				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	10.13	Rating **	M	Issue No.	18
LM End	10.13	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.328697 °	39.328697 °
				-122.029262 °	-122.029262 °
DWR ID	DWR_MA0001_01_s _ 2012_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Monitor the erosion site.					

Photo 1 of 1 : SP_2016_MA0001_297_18_20160316_00009.jpg



View of the erosion along the waterside of the levee.

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Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	11.01	Rating **	M	Issue No.	12
LM End	11.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.340774 °	39.340774 °
				-122.032872 °	-122.032872 °
DWR ID	DWR_MA0001_01_s_2012_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.53	Rating **	A/W	Issue No.	83
LM End	11.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.348151 °	39.348151 °
				-122.031260 °	-122.031260 °
DWR ID	DWR_MA0001_01_s_2016_83				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	12.27	Rating **	A/W	Issue No.	78
LM End	12.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.357497 °	39.357497 °
				-122.026093 °	-122.026093 °
DWR ID	DWR_MA0001_01_f_2015_78				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_MA0001_297_78_20160316_00021.jpg



View of the rodent holes along the waterside slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Unit No. 01 Sacramento River	Right	16.76	03/24/2016 03/24/2016	Keith Millard

LM Start	12.49	Rating **	A/W	Issue No.	79
LM End	12.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.359500 °	39.359500 °
				-122.022980 °	-122.022980 °
DWR ID	DWR_MA0001_01_f_2015_79				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_MA0001_297_79_20160316_00022.jpg



View of the rodent holes along the waterside slope.

LM Start	16.35	Rating **	M	Issue No.	9
LM End	16.58	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.407837 °	39.411111 °
				-122.008763 °	-122.009238 °
DWR ID	DWR_MA0001_01_s_2016_9				
Comment Code					
Inspector Comment					
Erosion site added in 1997 and removed in 2005. 2009 - Site added back in, hard toe with slow moving erosion. Potential geotechnical failure. 2011 - Site extended downstream. 2015: Last observed in 2013. [2015 Site ID: SAC_164-3_R]					

Photo 1 of 2 : SP_2016_MA0001_297_9_20160316_00006.jpg



USACE 2013 Photo #1

LM Start	16.35	Rating **	M	Issue No.	9 (cont)
LM End	16.58	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_MA0001_297_9_20160316_00007.jpg



USACE 2013 Photo #2

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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